




































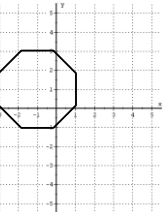






















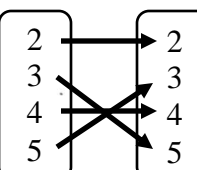




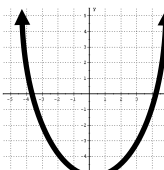




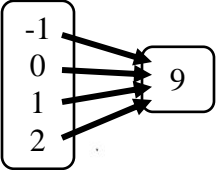
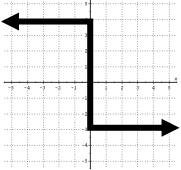
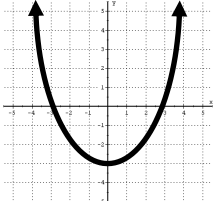
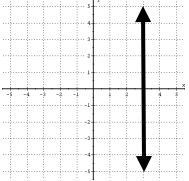
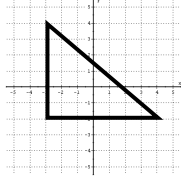
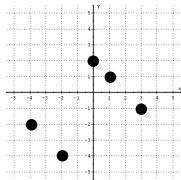


Lesson 3:

Directions: Find the correct answer and use a pencil to **DRAW** the object that corresponds to your answer.

<p>1. If $f(x) = 3x - 5$ Find $f(-2)$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $f(x) = 1$ draw the following hat on the head.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is $f(x) = -11$ draw the following hat on the head.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	(a) If your answer is $f(x) = 1$ draw the following hat on the head.		(b) If your answer is $f(x) = -11$ draw the following hat on the head.		<p>2. Is the shape to the right a function?</p> <div style="text-align: right; margin-right: 20px;"></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is <u>NO</u> draw a tassel on the hat.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <u>YES</u> draw a bow on the hat.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	(a) If your answer is <u>NO</u> draw a tassel on the hat.		(b) If your answer is <u>YES</u> draw a bow on the hat.		<p>3. Does the table represent a function?</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 2px;">x</th> <th style="padding: 2px;">y</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">2</td> <td style="padding: 2px;">4</td> </tr> <tr> <td style="padding: 2px;">4</td> <td style="padding: 2px;">4</td> </tr> <tr> <td style="padding: 2px;">6</td> <td style="padding: 2px;">4</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is <u>NO</u> draw the following hair.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <u>YES</u> draw the following hair.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	x	y	2	4	4	4	6	4	(a) If your answer is <u>NO</u> draw the following hair.		(b) If your answer is <u>YES</u> draw the following hair.	
(a) If your answer is $f(x) = 1$ draw the following hat on the head.																						
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(a) If your answer is <u>NO</u> draw the following hair.																						
(b) If your answer is <u>YES</u> draw the following hair.																						
<p>4. Does the following set represent a function? $\{(2,5), (3,7), (2,9), (3,11), (4,13)\}$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is <u>YES</u> draw the following eyes.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <u>NO</u> draw the following eyes.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	(a) If your answer is <u>YES</u> draw the following eyes.		(b) If your answer is <u>NO</u> draw the following eyes.		<p>5. What is the DOMAIN of this relation? $(3,7), (2,9), (3,11), (2,7)$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is <u>$\{7,9,11\}$</u> draw the following eyebrows.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <u>$\{2,3\}$</u> draw the following eyebrows.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	(a) If your answer is <u>$\{7,9,11\}$</u> draw the following eyebrows.		(b) If your answer is <u>$\{2,3\}$</u> draw the following eyebrows.		<p>6. What is the RANGE of this relation? $(1,4), (2,5), (3,4), (4,7)$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is <u>$\{1,2,3,4\}$</u> draw the following nose.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <u>$\{4,5,7\}$</u> draw the following nose.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	(a) If your answer is <u>$\{1,2,3,4\}$</u> draw the following nose.		(b) If your answer is <u>$\{4,5,7\}$</u> draw the following nose.									
(a) If your answer is <u>YES</u> draw the following eyes.																						
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(a) If your answer is <u>$\{1,2,3,4\}$</u> draw the following nose.																						
(b) If your answer is <u>$\{4,5,7\}$</u> draw the following nose.																						
<p>7. What is the DOMAIN of the shape?</p> <div style="text-align: center; margin: 10px 0;"></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $-3 \leq x \leq 1$ draw the following smile.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is $-1 \leq x \leq 3$ draw the following smile.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	(a) If your answer is $-3 \leq x \leq 1$ draw the following smile.		(b) If your answer is $-1 \leq x \leq 3$ draw the following smile.		<p>8. What is the RANGE of the shape in question 7?</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $-3 \leq y \leq 1$ draw a square on each cheek.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is $-1 \leq y \leq 3$ draw a circle on each cheek.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	(a) If your answer is $-3 \leq y \leq 1$ draw a square on each cheek.		(b) If your answer is $-1 \leq y \leq 3$ draw a circle on each cheek.		<p>9. If $f(x) = -x^2 + 2x + 3$ Find $f(-1)$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $f(x) = 2$ draw the following gown on the shirt.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is $f(x) = 0$ draw the following gown on the shirt.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	(a) If your answer is $f(x) = 2$ draw the following gown on the shirt.		(b) If your answer is $f(x) = 0$ draw the following gown on the shirt.									
(a) If your answer is $-3 \leq x \leq 1$ draw the following smile.																						
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(a) If your answer is $f(x) = 2$ draw the following gown on the shirt.																						
(b) If your answer is $f(x) = 0$ draw the following gown on the shirt.																						
<p>10. If $f(x) = -x + 4$ Find $f(-3)$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $f(x) = 7$ draw the following diploma in the background.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is $f(x) = 1$ draw the following diploma in the background.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	(a) If your answer is $f(x) = 7$ draw the following diploma in the background.		(b) If your answer is $f(x) = 1$ draw the following diploma in the background.		<p>11. Is this a function?</p> <div style="text-align: center; margin: 10px 0;"></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is <u>YES</u> draw a ribbon on the diploma.</td> <td style="width: 50%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <u>NO</u> draw a star on the diploma.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>	(a) If your answer is <u>YES</u> draw a ribbon on the diploma.		(b) If your answer is <u>NO</u> draw a star on the diploma.		<p>12. Is the shape to the right a function?</p> <div style="text-align: right; margin-right: 20px;"></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is <u>YES</u> write the word DIPLOMA on the diploma.</td> <td style="width: 50%;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <u>NO</u> write the word OFFICIAL on the diploma.</td> <td></td> </tr> </tbody> </table>	(a) If your answer is <u>YES</u> write the word DIPLOMA on the diploma.		(b) If your answer is <u>NO</u> write the word OFFICIAL on the diploma.									
(a) If your answer is $f(x) = 7$ draw the following diploma in the background.																						
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(a) If your answer is <u>YES</u> write the word DIPLOMA on the diploma.																						
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Directions: Find the correct answer and COLOR the object that corresponds to your answer.

<p>13. Is this a function?</p>  <p>(a) If your answer is <u>NO</u> color the eyes brown.</p> <p>(b) If your answer is <u>YES</u> color the eyes green.</p>	<p>14. Does the following set represent a function?</p> <p>$\{(1,5), (2,5), (3,5), (4,5), (5,5)\}$</p> <p>(a) If your answer is <u>YES</u> outline the eyes and eyelashes in black.</p> <p>(b) If your answer is <u>NO</u> outline the eyes and eyelashes in green.</p>	<p>15. Does the table represent a function?</p> <table border="1" style="float: right; margin-left: 20px;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>1</td> <td>4</td> </tr> <tr> <td>2</td> <td>5</td> </tr> <tr> <td>4</td> <td>6</td> </tr> </tbody> </table> <p>(a) If your answer is <u>NO</u> color the shapes on the cheeks pink.</p> <p>(b) If your answer is <u>YES</u> color the shapes on the cheeks red.</p>	x	y	1	3	1	4	2	5	4	6										
x	y																					
1	3																					
1	4																					
2	5																					
4	6																					
<p>16. Is the shape to the right a function?</p>  <p>(a) If your answer is <u>NO</u> color the mouth red.</p> <p>(b) If your answer is <u>YES</u> color the mouth pink.</p>	<p>17. What is the DOMAIN of this relation?</p> <table border="1" style="float: right; margin-left: 20px;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> <tr> <td>2</td> <td>5</td> </tr> <tr> <td>2</td> <td>6</td> </tr> </tbody> </table> <p>(a) If your answer is <u>{3,4,5,6}</u> color the hair yellow.</p> <p>(b) If your answer is <u>{2}</u> color the hair black.</p>	x	y	2	3	2	4	2	5	2	6	<p>18. What is the RANGE of this relation?</p> <table border="1" style="float: right; margin-left: 20px;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>5</td> </tr> <tr> <td>2</td> <td>6</td> </tr> <tr> <td>3</td> <td>5</td> </tr> <tr> <td>3</td> <td>6</td> </tr> </tbody> </table> <p>(a) If your answer is <u>{2,3}</u> color the face and neck apricot.</p> <p>(b) If your answer is <u>{5,6}</u> color the face and neck brown.</p>	x	y	2	5	2	6	3	5	3	6
x	y																					
2	3																					
2	4																					
2	5																					
2	6																					
x	y																					
2	5																					
2	6																					
3	5																					
3	6																					
<p>19. If $f(x) = -2x^3 - x + 1$ Find $f(-2)$</p> <p>(a) If your answer is <u>$f(x) = 19$</u> outline the nose and eyebrows in black.</p> <p>(b) If your answer is <u>$f(x) = 67$</u> outline the nose and eyebrows in red.</p>	<p>20. What is the RANGE of the shape in question 21?</p> <p>(a) If your answer is <u>$y \geq -3$</u> outline the letters on the diploma in black.</p> <p>(b) If your answer is <u>\mathbb{R}</u> outline the letters on the diploma in red.</p>	<p>21. What is the DOMAIN?</p>  <p>(a) If your answer is <u>$-3 \leq x \leq 3$</u> color the object on the hat green.</p> <p>(b) If your answer is <u>\mathbb{R}</u> color the object on the hat yellow.</p>																				
<p>22. Is the vertical line a function?</p>  <p>(a) If your answer is <u>YES</u> color the rest of the hat purple.</p> <p>(b) If your answer is <u>NO</u> color the rest of the hat blue.</p>	<p>23. What is the DOMAIN of the shape in question 24?</p> <p>(a) If your answer is <u>$-2 \leq x \leq 4$</u> color the "V"-shaped stripe on the gown red.</p> <p>(b) If your answer is <u>$-3 \leq x \leq 4$</u> color the "V"-shaped stripe on the gown yellow.</p>	<p>24. What is the RANGE?</p>  <p>(a) If your answer is <u>$-2 \leq y \leq 4$</u> color the rest of the gown blue.</p> <p>(b) If your answer is <u>$-3 \leq y \leq 4$</u> color the rest of the gown green.</p>																				
<p>25. Does the following set represent a function?</p> <p>$\{(1,1), (2,2), (3,3), (4,4)\}$</p> <p>(a) If your answer is <u>NO</u> outline the lines on the gown in brown.</p> <p>(b) If your answer is <u>YES</u> outline the lines on the gown in black.</p>	<p>26. What is the DOMAIN of the graph in question 27?</p> <p>(a) If your answer is <u>$\{-4, -2, 0, 1, 3\}$</u> color the diploma yellow and the object on the diploma red.</p> <p>(b) If your answer is <u>$\{-4, -2, -1, 1, 2\}$</u> do not color the diploma or object on the diploma.</p>	<p>27. What is the RANGE?</p>  <p>(a) If your answer is <u>$\{-4, -2, 0, 1, 3\}$</u> color the background pink.</p> <p>(b) If your answer is <u>$\{-4, -2, -1, 1, 2\}$</u> color the background orange.</p>																				

Artistic Tip: Your picture will look fantastic if you outline the major features using a black crayon or marker!